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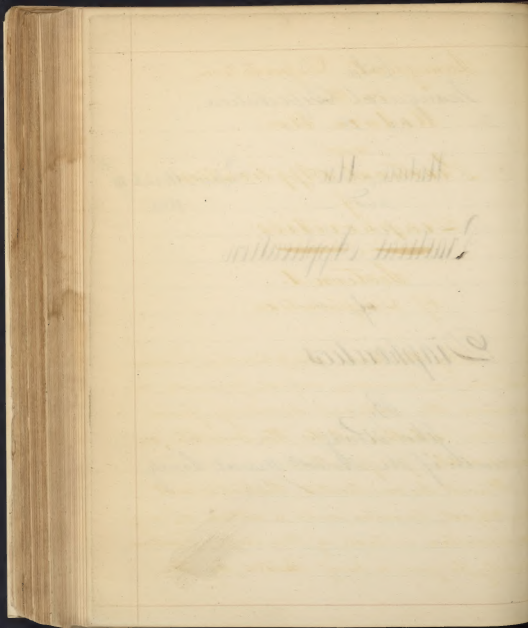
An
Inaugural Dissertation
on the

Nature, Use,
and

Passed March 19th
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Practical Application
of
Diaphoretics.

By
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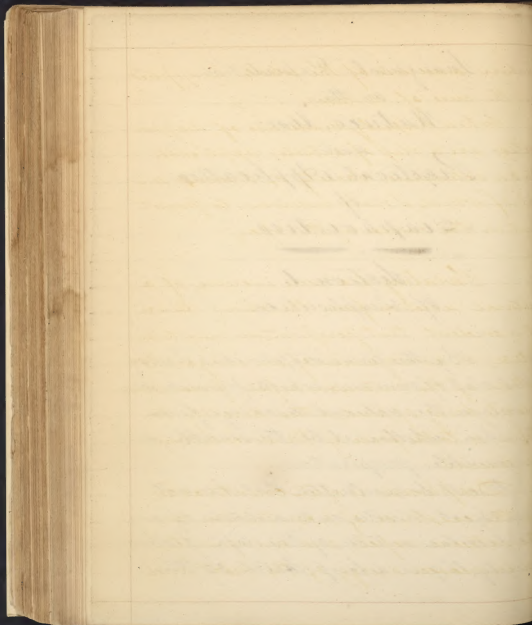


Inaugural Dissertation
on the
Nature, Use
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Diaphoretics.

Section 1.
Of Diaphoretics.

By the term diaphoretics, I mean that class of remedies, which promote, or increase the natural discharge from the skin, whether it be, the sensible, or insensible perspiration.

It will be recollected, that it is not my object, to enter into a detail of any particular article of this class. I intend merely, to give a brief sketch, of the

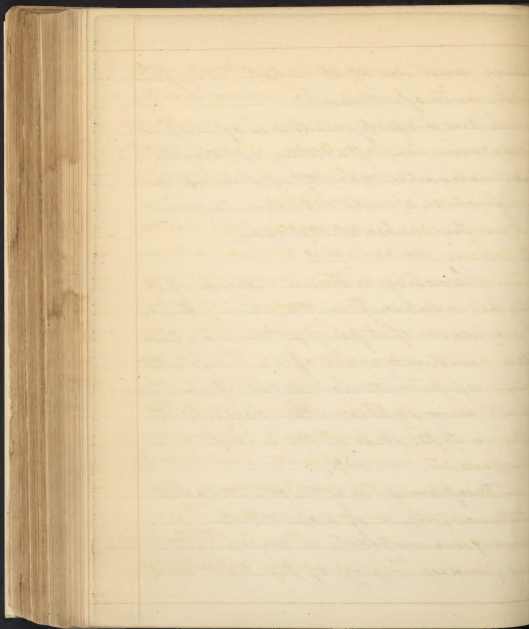


nature, and use of the whole, as applied in the cure of diseases.

When properly made use of, diaphoretics are a class of articles, applicable to an extensive variety of diseases, several of which, I shall endeavour to point out, in the course of this essay.

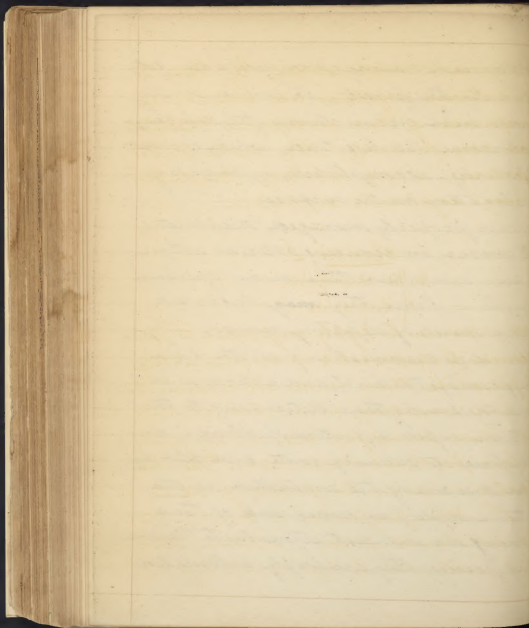
Sweating is a mere increase, of a natural secretion from the skin. Hence it is evident, that perspiration may take place, in consequence of an invigorated action, of the cutaneous vessels, from stimulants being applied, either directly to them, or to the force of the circulation in general.

Diaphoresis is often counteracted, by the existence of a constriction on the extreme vessels, and consequently, an increased energy of the heart and



arteries, is not always, and necessarily followed by this process. To induce sweating under such circumstances, it is necessary to overcome this resistance, which is most effectually accomplished, by inducing a relaxation on the surface.

When properly managed, diaphoretics all concur, in reducing arterial action, however diversified their *modus operandi* may be, — hence, they may be ranked, as one species of depletory remedies. By their direct evacuation from the skin, the force of the heart, and arteries, is diminished, — by their determining to the extreme vessels, a portion of blood is driven from its ordinary route, and also, by their overcoming the constriction, on the extreme vessels, (in consequence of their proving an indirect stimulus, to the moving power,) they are amply calculated



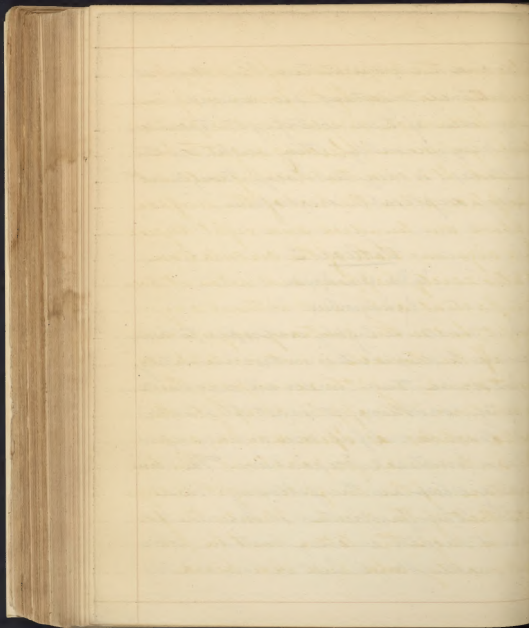
to diminish morbid action. By them also internal congestions are removed, in consequence of their centrifugal tendency and very probably, they make on the capillaries, a very salutary, though not a very explicable impression.

Section 2.

On the administration of Diaphoretics.

As it would be highly improper, to have recourse to diaphoretics indiscriminately, or prescribe them under all circumstances, and conditions, it must be obvious, that their successful use depends upon certain practical precautions. The principal of which are the following: viz —

1st When perspiration is desired, the patient should in every instance when it is practicable, be kept in bed, and his



pulse, and the temperature of his body, be
carefully watched: if the former is vigorous,
or the latter high, should it not be particu-
larly forbidden? bleeding ought to be
precluded. It is said, that sweating will not
take place, when the heat of the surface
is above one hundred and eight degrees.
In a vigorous state of the circulation,
it also rarely happens, and when it does,
it is partial only, and without any
benefit; but on the contrary, injurious.

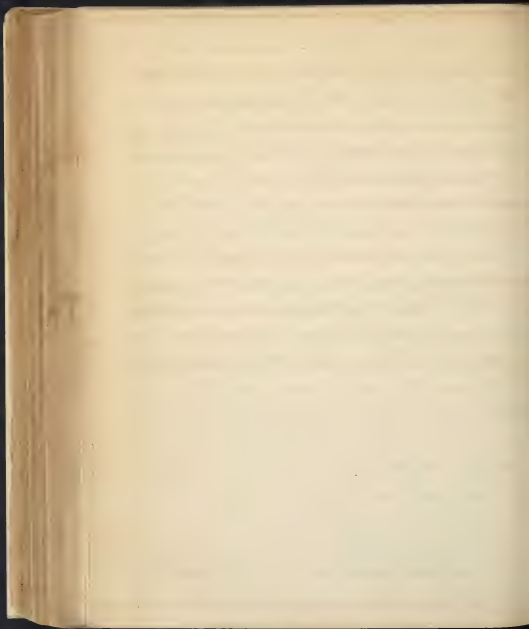
If the stomach is not irritable, di-
luent drink, ought to accompany their
exhibitions. This applies chiefly to the
emetic articles, as Ipecacuanha, and
the antimonial preparations. The tem-
perature of the surface ought to regu-
late that of the drink. Should the for-
mer be high, the latter must be pro-
portionably cold, and vice versa.



Pruritus should be carefully avoided,
while we pursue the diaphoretic plan,
in the lower forms of disease, unless it
should be indicated by particular cir-
cumstances, because, it is very apt to
check diaphoresis, and aggravate the
complaint, in this stage of the system,
by changing the action from the bowels
as well as exposing the patient to cold.

The action of the cutaneous vessels,
and that of the urinary organ, is in
an inverse ratio. It is, therefore, proper,
that when the one is intended to be
excited, the other should be restrained.
Accordingly during the operation of
sweating whatever increases the action
of the ^{the} kidneys ought to be carefully-
avoided.

In cases where a regular, and long
continued perspiration is intended, a



flannel shirt should be substituted for a linen one; but this, in all cases, in which we practice sweating, is not necessary, and may even prove injurious, in some acute diseases, particularly in febrile affections by causing too much irritation.

When the sweating process is over, the flannel, or linen, must be changed, for the filth, thus generated, may become very prejudicial and even excite fever, by its irritating nature.



Section 3.

On the practical application of diaphoretics

Having treated out some of the most prominent rules by which the application of diaphoretics is to be governed, I shall next proceed to enumerate some of the different diseases in which their beneficial effects are particularly experienced.

Then sweating, there is perhaps, not a more common, and popular plan of treating disease. — Diaphoretics are resorted to, by every kind of society: — Not only the most vulgar, but also the more enlightened and polished class of mankind seem alike to be prejudiced in their favour. And why, not? — Do we not find them ranked in the catalogue of remedies, which beautiful, and beneficent nature points out to us? But while we are thus



favoured, with her kind, and parental
instructions, it becomes not less our duty,
as faithful pupils, to study, well her in-
tentions lest by our own indolence we
turn her salutary into poison, and her
good into evil.

It would be superfluous for me to enter
into any detail, in proof of this assertion
— one simple illustration will confirm
it. Let us suppose ourselves at the bed-
side of a patient, sick with typhus fever,
in its early, and inflammatory stage.
we find his pulse quick active, and
dilated, his skin dry, and hot, with
throbbing, and burning of his temples, his
mind delirious, his tongue dry, and
 parched, his bowels constipated, and
his thirst excessive? Knowing that
this disease, as well as many others,
often comes to a favorable crisis by



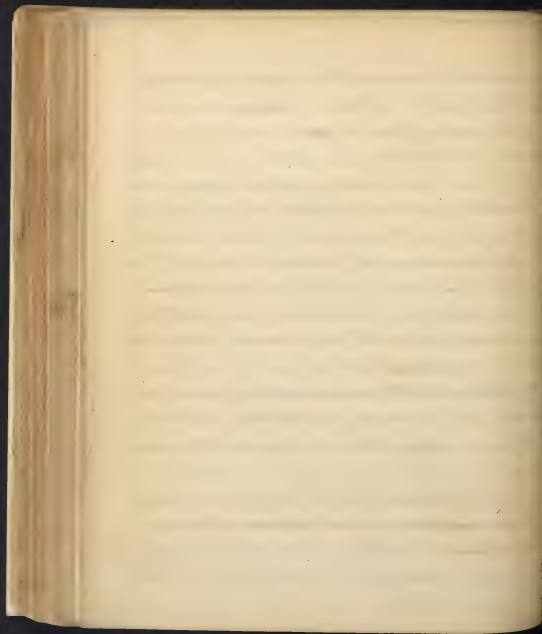
the occurrence of a diarrhoea induced by
either a salutary effort of nature, or the
administration of some medicine, for that
purpose we resort immediately, to some
cool and stimulating diaphoretic in the
case in question. The result will be, an in-
crease of all the present symptoms, with
the addition of others still more alarming
whereas, had the morbid excitement
been first reduced by the more direct,
and proper means. and then the me-
dicine properly chosen and directed
the result in all probability would
have been very different - Such as
an open, and more regular moist
pink clean tongue, with less fever,
and excretions more natural and heal-
thy, and a consequent subsidence of the
disease. It is therefore certain, that
diaphoretics, like many other arti-



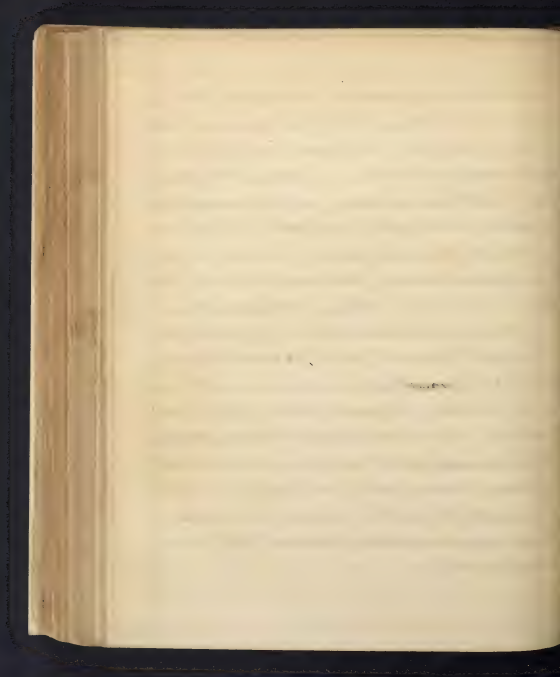
ing, notwithstanding their great efficacy,
in the cure of disease may become
the source of mischief and harm
when improperly directed.

In intermittent fever, the
aphoretics, when properly directed, will
not only tend to bring the paroxysm to
a speedy issue, but also prevent its
recurrence by their tonic effect on
the capillaries. This double effect
however is not to be expected, from the
same article. While we give for
the former the more cooling and re-
laxing, to produce the latter, the more
opposite, and stimulating, are deman-
ded.

In remittent and continued fever
these remedies also become a very
important article; after arterial ac-
tion is sufficiently reduced, by the



more direct depletory measures. We must
now, as well as in all other cases of the
kind, remember the ever valuable pre-
cept, which teaches us, never to force
perspiration, in any inflammatory
disorder, but rather solicit it, by leni-
ent, and gentle means. In our "autum-
nal bilious fevers," we are told by pro-
fessor Charmer these observations
are more particularly applicable.
"It is well known," the Doctor observes,
in many instances, how exceedingly pro-
tracted is their career - and I have some
times found, under such circumstances,
diaphoresis kept up, for twelve, or
eighteen hours, very successfully to
conduct them to a crisis, by breaking
the wrong habits by which they are
continued."



In yellow fever, as might be expected diaphoretics have not been lost sight of. In New York, it appears they were carried to a considerable extent in the treatment, of that dreadful malady; but unfortunately, as it would appear, from their records of mortality, they, in common with all other remedies, proved little successful.

To typhus fever sweating is well adapted. — Diaphoretics, here, become a valuable class of remedies, when directed with judgment; particularly the antimonials. In the milder and more simple forms of this disease we may resort to them, as soon as the alimentary canal is sufficiently evacuated, and generally with decided advantage; but where the disease puts on a more violent, and inflammatory character, the exhibition

diaphoretics must be governed by those general rules already mentioned.

Of the efficacy, of the antimonial diaphoretics, in the early stage, of the more simple forms of typhus I can speak with some degree of confidence. I had repeated opportunities during the course of last autumn, to observe their good effects, in these cases, as they occurred in the practice of my worthy preceptor, Doct. Wm S. G. Baum. His treatment here was briefly this. When called at an early hour, an emetic, or cathartic was administered, after which the following prescription was made use of, viz: Tart. Emetic. gr i

Opium - gr iv

Nit. of potash gr xiv

Mixed, and made into four powder, one of which was given, every three



or four hours. This was repeated, until the surface became sufficiently relaxed, the pulse more regular and open, and the tongue, clean, and moist, which was generally accomplished, in the course of five, or six days. Strict attention, of course, was paid, during this time, to the patient's bowels, which were kept in a soluble condition. Under this treatment, every case of the description alluded to, was speedily relieved; the number of which was, by no means small, amounting probably to not less than fifty, or sixty.

The disease called *Pneumonia* *infractoria*, or "winter Effluvia" / which has of late years made its appearance, as much an extensive, and complicated pestilence, throughout a great part of the United States / we are told by pro-



Before Chapman, has been best treated
by those who adopted the diaphoretic
plan, when it assumed its more simple
form. Here as in genuine typhus, to which
it bears considerable analogy, there were
also not infrequently, those great local
congestions, as in the bilious, pneumonic,
and anginous cases, which called for
more powerful evacuating agents, and
demanded, as a primary step, the use
of emetic and cathartic, after which
diaphoretics displayed decided advan-
tage.

As regards the contagious, and erup-
tive complaints, — they perhaps all
have a time, at which diaphoretics be-
come a valuable part of their treatment.

In diseases of the alimentary ca-
nal, perhaps there is no remedy more
valuable, than the one before us. Of

then dysentery is not the least remarkable.
Richter, whose authority is so very respect-
table, considers this disease, as a rheumatic,
or catarrhus affection, of the large intes-
tines, and consequently, his leading treat-
ment, is sweating. This practice is sanc-
tioned by Doctor Chapman. His Dr.
Chapman's theory, I think, could not be
more rational, on this subject, and with
not a little propriety, he condemns, the
practice of continual purging, in some
of these affections, upon the idea, that
the matter formed, is the cause, and not
the effect of the disorder. Believing
the accumulation, of acrid matter,
to be the result of a ~~a~~ previous irritation,
in the stomach and bowels, giving rise to
an increased effusion, from the mucous
follicles, or the exhalant vessels, and some-
times a very vitiated secretion of bile



his practice is, first, to evacuate the alimentary canal, moderately, after which, to allay the intestinal irritation, and bring on a relaxation of the surface, he gives combinations of Opacuanke, and opium, and if necessary, calomel is added.

The same may be said of Cholera infantum, commonly, called "Summer Complaint", as well as, Cholera morbus. Here also we have a specimen of intestinal irritation, complicated with no small degree of hepatic derangement. This, being the fact, it becomes no less obvious, that excessive purging becomes pernicious, also, in these complaints, since it can only have the effect of keeping up the morbid irritation already existing. We ought therefore, as Professor Chepman justly directs, resort to comparatively



spring evacuations, and then endeavour
to quiet irritation, restore healthy secre-
tion, and lastly give healthy tone to
the parts. Anacardine diaphoretics, 'ifs'
may be allowed the expression, to which
minute doses of calomel are added
become the principal remedy therefore.

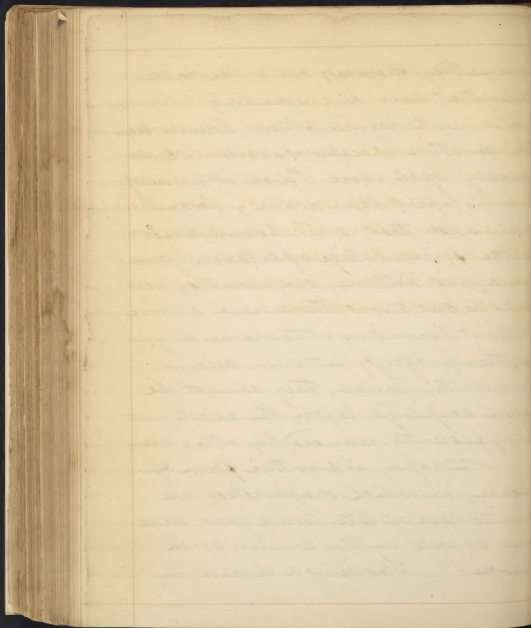
In chronic dysentery, and
diarrhoea, which appear to be kept up,
for want of a proper balance in the
capillary system, diaphoretics are un-
doubtedly beneficial, for reasons suf-
ficiently intelligible.

In Peritoneal inflammation,
after action is sufficiently reduced,
by more direct depletion diaphoretics
become exceedingly useful. Nor are they
less applicable when properly directed to
many of the pulmonary affections, rheu-
matism and a number of the other in



Inflammatory diseases; but as the same rules, that have been repeatedly mentioned with regard to their administration in other diseases of excitement, do equally apply here, I deem it unnecessary to repeat them again. I shall only add, that, when administered in the forming stage of catarrh, pneumonia, and erythema, diaphoretics are said to cut short the disease at once, without permitting it to make any farther progress; but when delayed beyond this period, they cannot be again employed, before the excitement is sufficiently reduced, by other means.

Dropsy is another form of disease, in which diaphoretics, are said to have of late been a good deal used, as well in this country, as in Europe. This being a disease, in



which the capillaries are so much concerned, it does not appear at all strange, that when properly selected, the remedy before us, should prove beneficial, in some of these cases. Doctor Chapman thinks, that dropsies, which have their origin, in intermittent, and are complicated, with visceral obstruction, are among the cases to which diaphoretics are most adapted.

1847

The following is a list of the
names of the persons who have
been appointed to the various
committees of the Association.
The names are given in the
order in which they were
appointed, and are arranged
in alphabetical order of the
last names.